

# Sepehr Dehdashtian

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## Education

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Michigan State University | Ph.D. in Computer Science Jun. 2022 – Present

- **Focus:** Responsible AI, Generative AI, Representation Learning, Multimodal Models
- **GPA:** 4.0/4.0

Sharif University of Technology | M.Sc. Electrical Engineering Sep. 2018 – Feb. 2021

- **Thesis:** Blind Recognition of Channel Codes Using Deep Neural Networks
- **GPA:** 3.87/4.0

Shahid Chamran University of Ahvaz | B.Sc. in Electrical Engineering Sep. 2014 – Aug. 2018

- **GPA:** 3.93/4.0 (ranked 1<sup>st</sup>)

## Publications

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**The Dark Side of Dataset Scaling: Evaluating Racial Classification in Multimodal Models** 2024

Abeba Birhane\*, [Sepehr Dehdashtian\\*](#), Vinay Prabhu, Vishnu Naresh Boddeti

ACM Conference on Fairness, Accountability, and Transparency (FAccT) 2024

**Utility-Fairness Trade-Offs and How to Find Them** 2024

[Sepehr Dehdashtian](#), Bashir Sadeghi, Vishnu Naresh Boddeti

IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2024

**FairerCLIP: Debiasing CLIP's Zero-Shot Predictions using Functions in RKHSs** 2024

[Sepehr Dehdashtian\\*](#), Lan Wang\*, Vishnu Naresh Boddeti

International Conference on Learning Representations (ICLR) 2024

**On characterizing the trade-off in invariant representation learning** 2022

Bashir Sadeghi, [Sepehr Dehdashtian](#), Vishnu Naresh Boddeti

Transactions on Machine Learning Research (TMLR)

**Deep-Learning Based Blind Recognition of Channel Code Parameters over Candidate Sets under AWGN and Multi-Path Fading Conditions** 2021

[Sepehr Dehdashtian](#), Matin Hashemi, Saber Salehkaleybar

IEEE Wireless Communications Letters

## Awards & Honors

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- **STEAMpower Fellowship** 2024
- **TMLR Outstanding Paper Award Runner-Up and TMLR Featured Certification Award** 2023
- **Ranked 2nd GPA the graduating class of 2021** | Sharif University of Technology 2021
- **Ranked 5th out of 30,000** | Iranian University Entrance Exam for Master's degree 2018
- **Ranked 1st GPA the graduating class of 2018** | Shahid Chamran University of Ahvaz 2018
- **National Graduate and Undergraduate Full Scholarships** 2014 – 2021

## Technical Skills

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**Languages:** Python, C++, CUDA, Verilog, VHDL

**ML Frameworks:** PyTorch, PyTorch-Lightning, TensorFlow, Keras, OpenCV, Scikit-Learn

**Others:** RevealJS, Git, Linux, Windows, Microsoft Office, LaTeX, MATLAB, FPGA

## Professional Experience

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### Research Assistant at Michigan State University

Jun. 2022 – Present

- Developed machine learning models with fairness and debiasing constraints
- Defined and estimated two types of utility versus fairness trade-offs in ML models
- Published research papers in top-tier conferences: ICLR'24, CVPR'24

### Research Assistant at Sharif University of Technology

Nov. 2018 – Feb. 2021

- Developed deep learning based methods for blind recognition of channel codes
- Published a research paper in IEEE Wireless Communication Letters

### Student Intern at Radaq Company

Jun. 2017 – Aug. 2017

- Designed a data logger system for agricultural sensors
- Designed a website for the data logger system using PHP and HTML

## Projects

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- Mitigating Political Bias in Pre-Trained Large Language Models 2023
- Visually Explaining Fair Representation Learning—A Model Perspective 2023
- Video Synopsis using OpenCV in Python 2019

## Teaching

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- Verilog Tutor | Shahid Chamran University 2017
- Communication Systems Tutor | Shahid Chamran University 2015

## Mentorship

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- **Mentee:** Yilin Zheng

**Role:** Master Student at Michigan State University, USA

**Mentoring Period:** Jan. 2024 – present

**Project:** "FairDiagnosis: Towards Fair Glaucoma Diagnosis"

## Services & Activities

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- Scientific-Students Associations of Clean Energy | Deputy Secretary 2016
- Scientific-Students Associations of EE Department | Member 2015